

Figure 1: Virtual Network Environments

The above diagram illustrates the virtual network environments. Virtual Network Environment 1 contains one application WEB SITE 1, is defined by the Virtual Network Address 10.10.0.1 resides solely on computer 1. Virtual Network Environment 2 contains two applications, WEB SITE 2 and APP 2, and spans two computers, Computer 2 and Computer 3. The virtual network of VNE 2 is 10.10.2.0.

F14.1

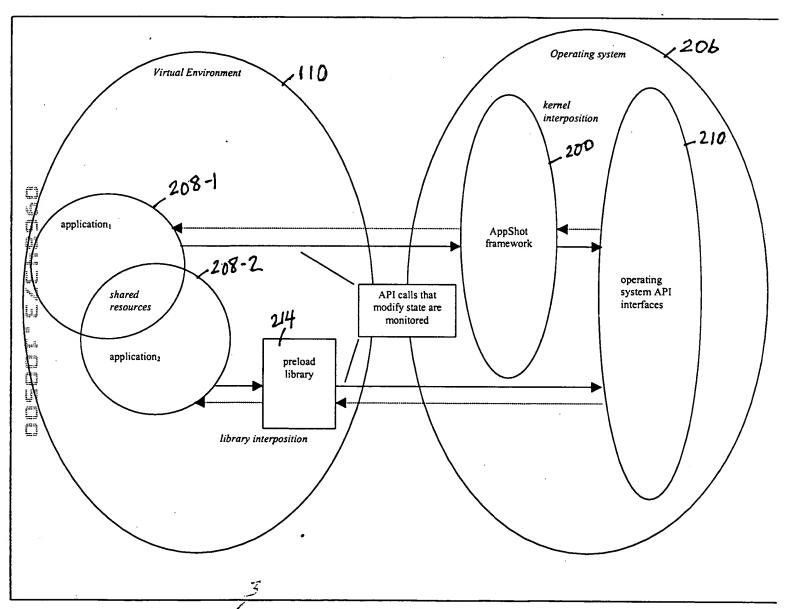


Figure 1. Tracking application state via library and kernel interposition.

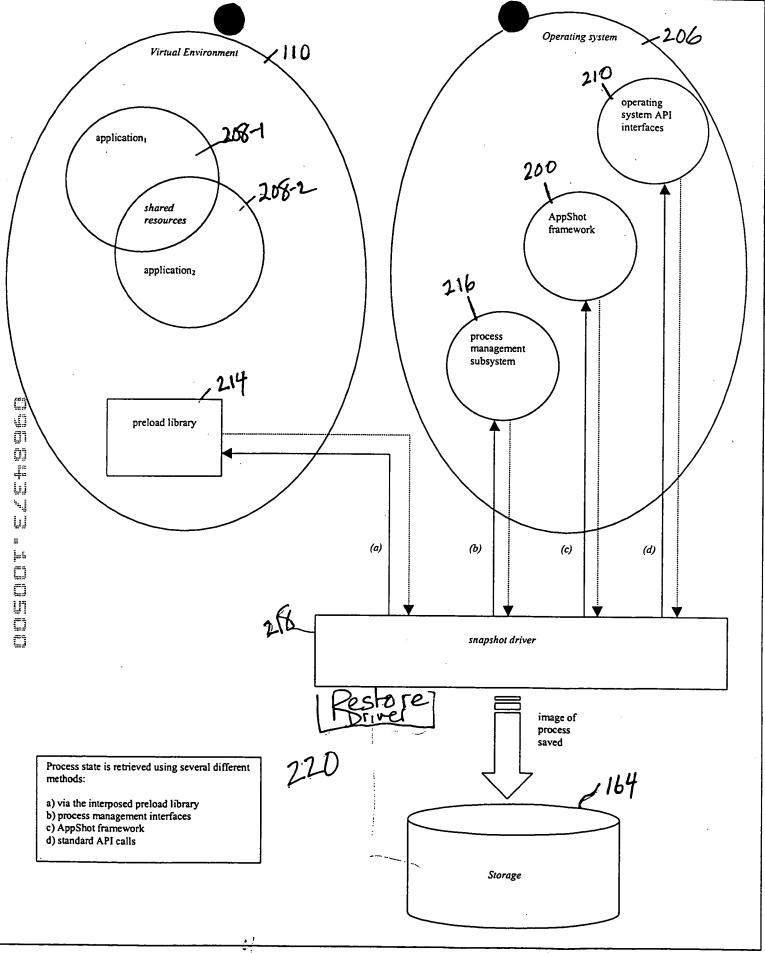


Figure 2. Capture of an application's run-time state.

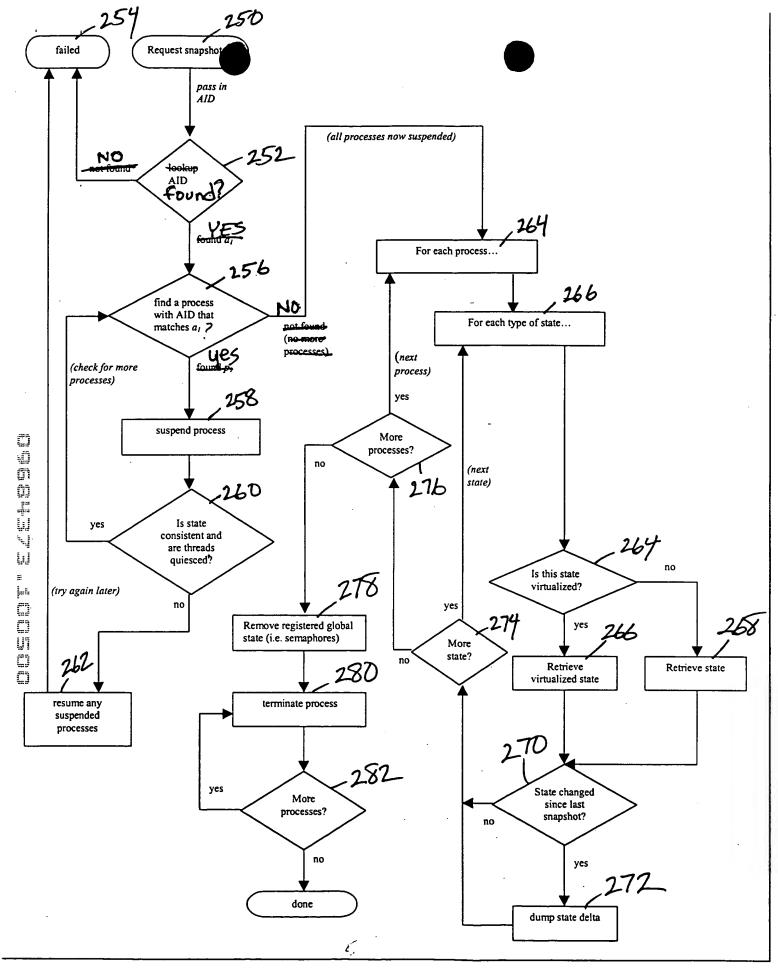


Figure 3. Flowchart of snapshot.

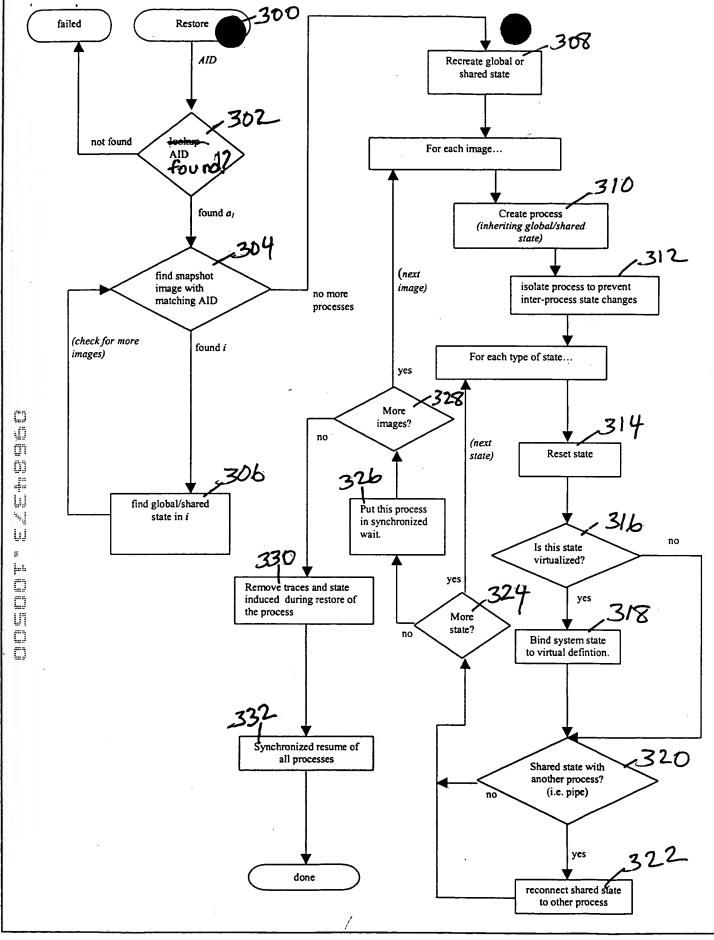


Figure 4. Flowchart of restore. F146

Resource Name Size

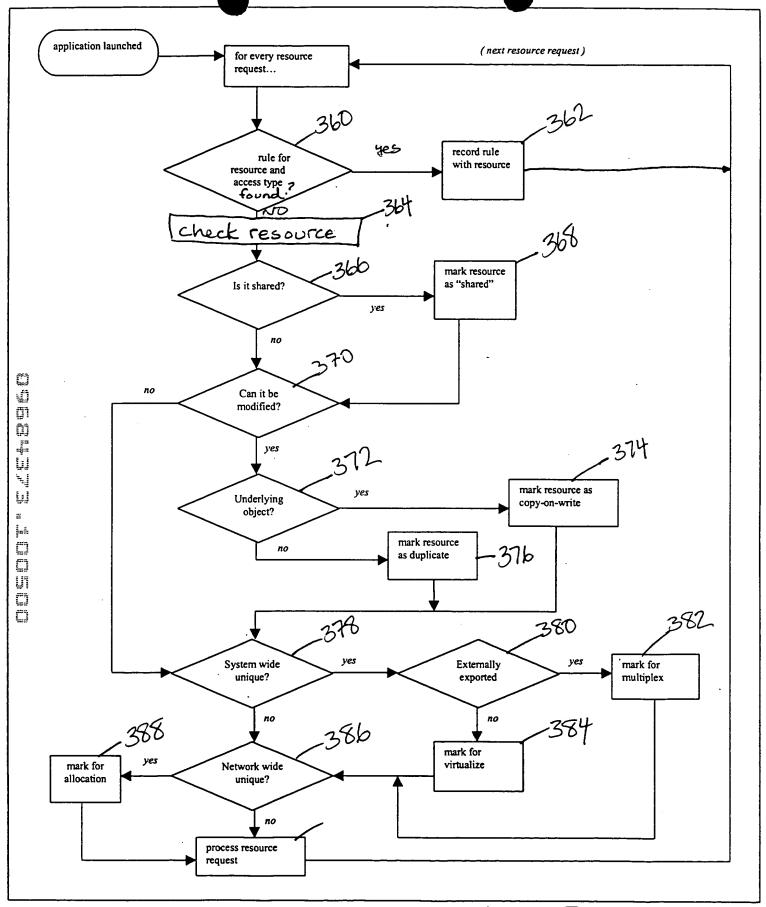


Figure 1. Flowchart of creation of virtual template.

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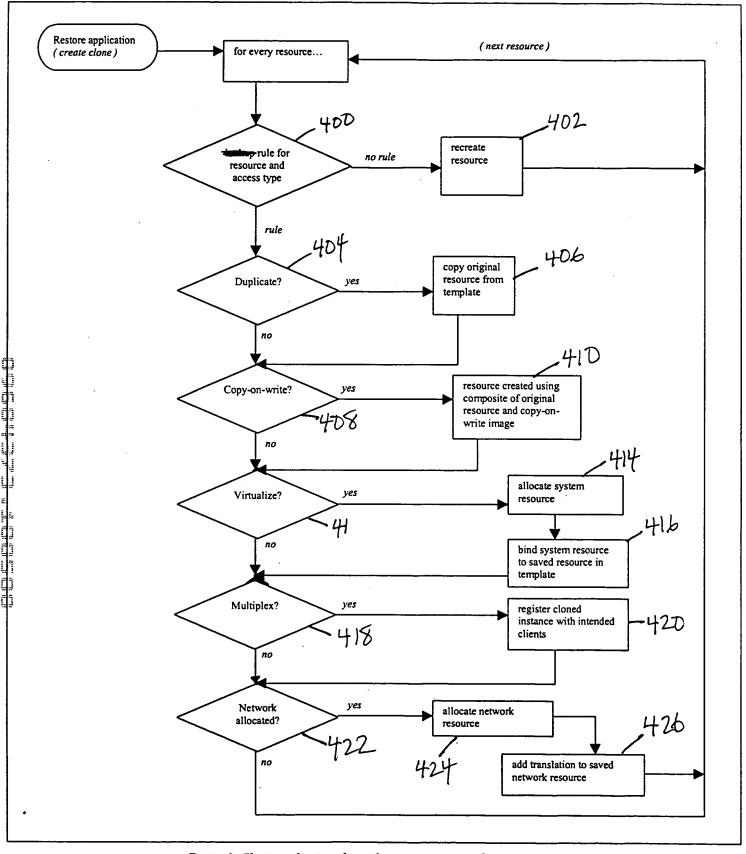


Figure 2. Cloning of a virtual template. F16.9

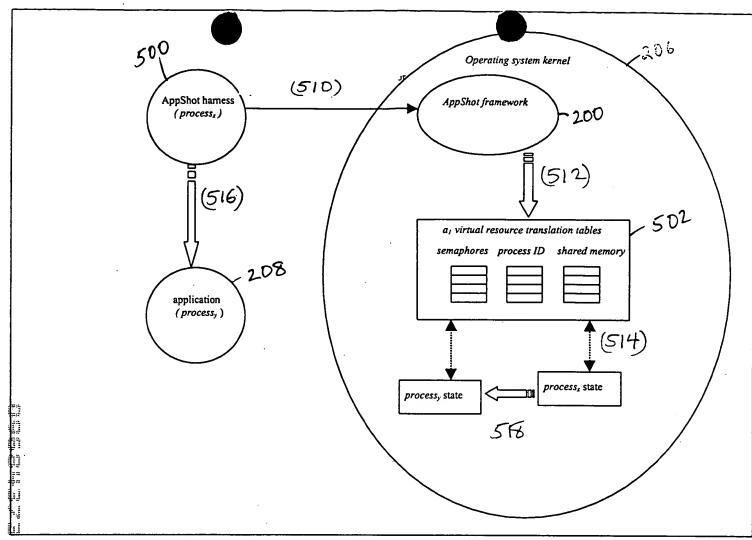


Figure 1. Registration of an application using virtual resource ID's.

F14.10

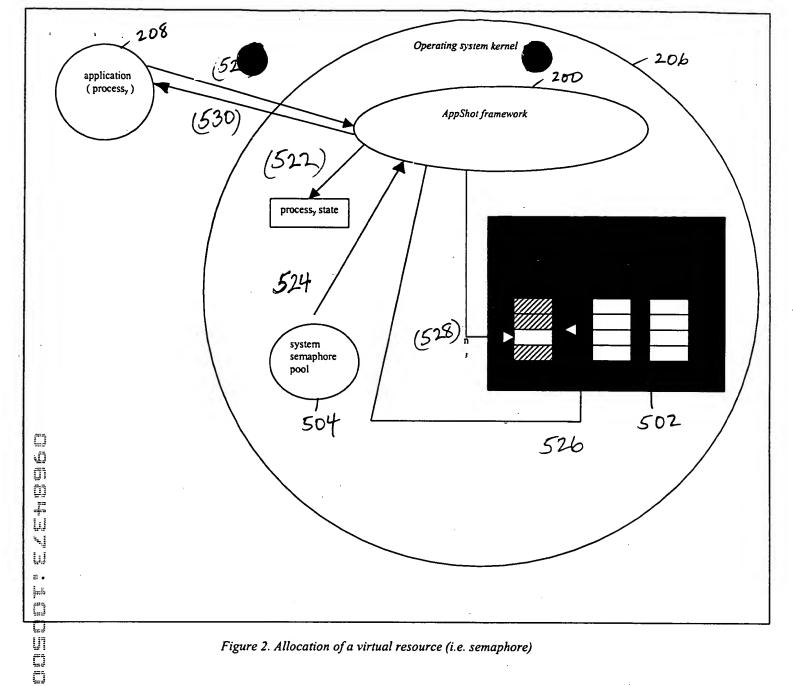


Figure 2. Allocation of a virtual resource (i.e. semaphore)

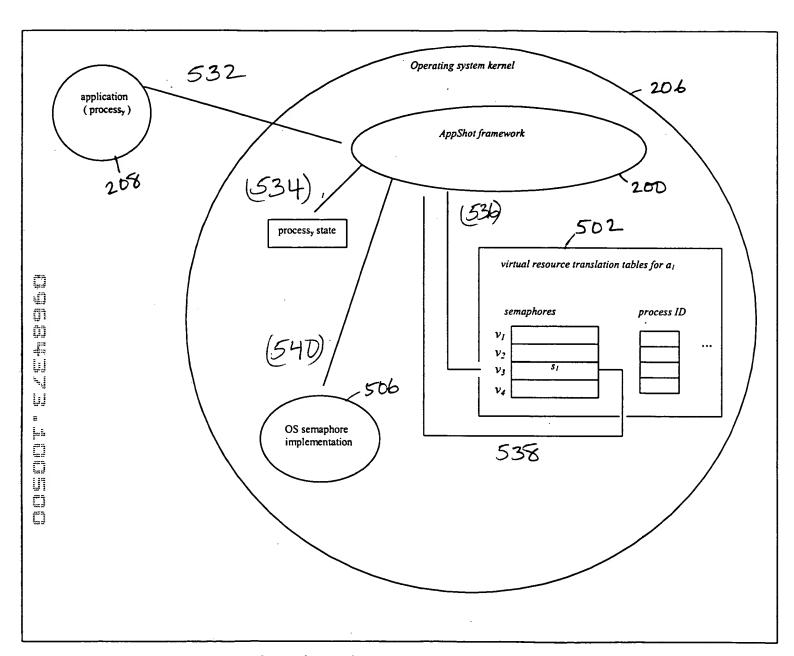


Figure 3. Translation of a virtual resource (i.e. semaphore), virtual to system

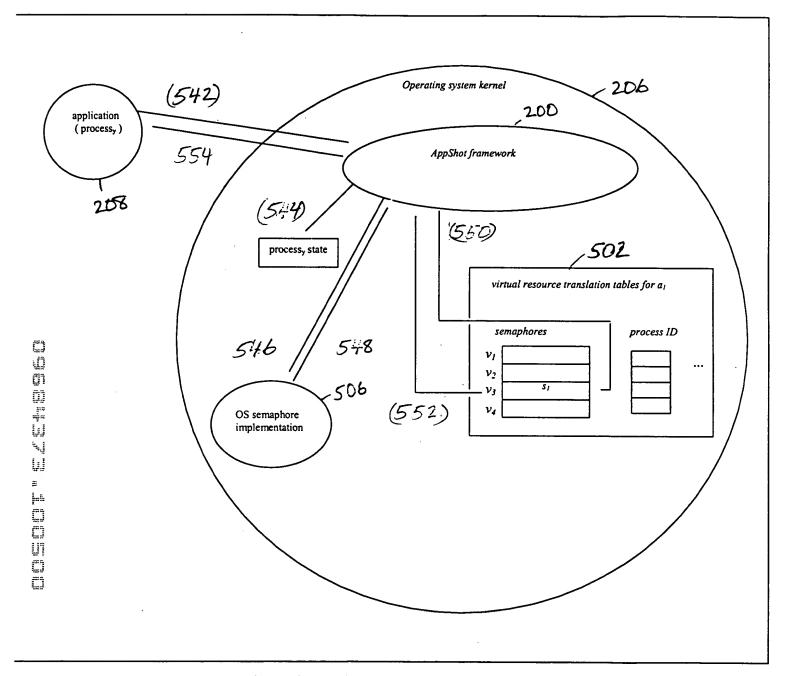


Figure 4. Reverse translation of a virtual resource (i.e. semaphore), system to virtual

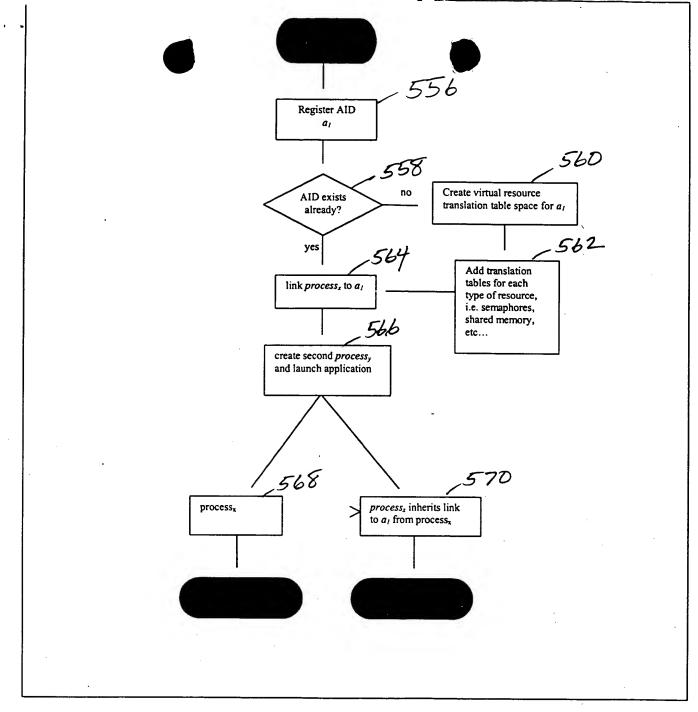


Figure 5. Flowchart describing creation of virtual translation tables.

F16,14

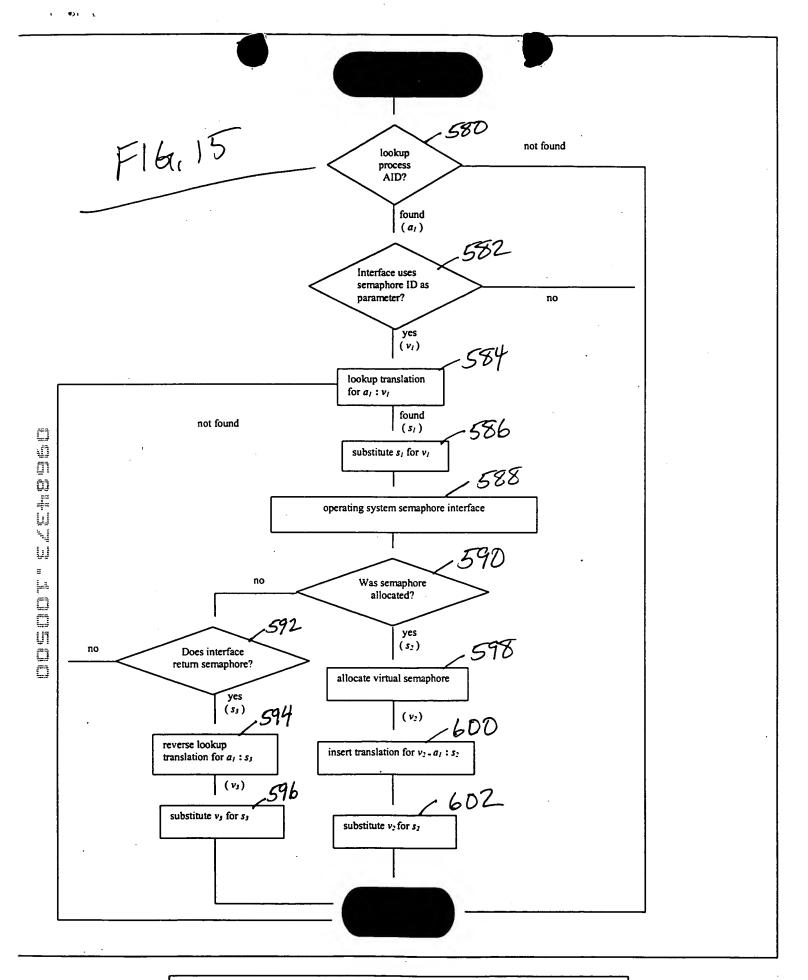


Figure 6. Flowchart depicting translation of a virtual resource (i.e. semaphore)